

**United States Environmental Protection Agency  
EPA New England  
One Congress Street, Suite 1100  
Boston, MA 02114-2023**

September 14, 2004

To: J. Kilborn, EPA  
H. Inglis, EPA  
R. Howell, EPA  
D. Moore, USACE  
K.C. Mitkevicius, USACE  
S. Steenstrup, MA DEP (2 copies)  
S. Peterson, CT DEP  
A. Silber, GE  
J. Novotny, GE  
J.R. Bieke, Esquire, Shea & Gardner  
S. Messur, BBL  
D. Young, MA EOE  
K. Munney, US Fish and Wildlife  
R. Cataldo, ENSR  
R. Nasman, The Berkshire Gas Company  
Mayor Ruberto, City of Pittsfield  
Commissioner of Public Works and Utilities, City of Pittsfield  
Public Information Repositories

RE: August 2004 Monthly Report  
1.5 Mile Reach Removal Action  
GE-Pittsfield/Housatonic River Site

Enclosed please find the August 2004 Monthly Report for the 1.5 Mile Reach Removal Action. In accordance with the Consent Decree for the GE-Pittsfield/Housatonic River Site, the United States Environmental Protection Agency (EPA) is performing the 1.5 Mile Reach Removal Action, with General Electric funding a portion of the project through a cost sharing formula.

The EPA has entered into an agreement with the United States Army Corps of Engineers (USACE) to assist in the design and construction of the Removal Action. The USACE subsequently awarded a design-construct contract to Weston Solutions, Inc. (Weston). Weston, with several subcontractors, will be performing the design and construction activities for the 1.5 Mile Reach Removal Action.

If you have any questions, please contact me at (413) 236-0969.  
Sincerely,

Dean Tagliaferro  
1.5 Mile Reach Removal Action Project Manager

## **1. Overview**

During August 2004, the Environmental Protection Agency (EPA), the United States Army Corps of Engineers (USACE), the USACE's contractor, Weston Solutions, Inc., and Weston's subcontractors continued remediation activities on the 1.5 Mile Reach Removal Action. The primary work included completing backfilling of Cells 16E and 17E. Excavation and riverbed power washing activities in Cells 18E and 19E were completed. Backfilling activities in Cells 18E and 19E were also completed. Excavation activities were initiated in Cell 18W. In addition, transfer of non-TSCA materials from the stockpile management areas to the GE On Plant Consolidation Areas (OPCAs) was performed. Also, transfer of non-TSCA and NAPL-impacted materials from the stockpile management areas to approved off-site facilities continued.

## **2. Chronological description of tasks performed**

Refer to Figure 1 for an orientation of the excavation cells and their respective locations.

By the end of July 2004, excavation activities in Cell 17E were completed and backfilling activities in Cell 17E were ongoing. During the first week of August backfilling activities in Cell 17E continued. Due to the presence of bedrock within the entire riverbed of Cell 17E, excavation depths varied. Therefore, various backfill configurations were developed to meet the design requirements. Twelve-inch riprap was placed in low lying areas and depressions in the bedrock to bring the excavated surface up to grade. Areas of the riverbed where the excavation depth was greater than 3 feet were backfilled with a layer of common fill, filter material, and 12-inch riprap. Areas of the riverbed where the excavation depth was less than 2.5 feet were backfilled with a layer of filter material and 12-inch riprap. Areas of the riverbed where bedrock was encountered at very shallow depths were either backfilled with filter material or were left with the bedrock exposed. The riverbank was backfilled with a six-inch layer of common fill, a six inch layer of filter material and a twenty four-inch layer of 18-inch riprap up to the 1.5 year flood elevation, which ranges between 969.5 feet to 970.5 feet. The riverbank above those elevations was backfilled with common fill and a six-inch layer of top soil.

Riverbank backfilling activities also continued in Cell 16E to the 1.5 year flood elevation. Common fill was installed in twelve inch horizontal lifts and compacted to meet the 95% compaction requirement. Then, a minimum six-inch layer of topsoil, erosion control blankets and herbaceous seed mix were installed.

Also by the end of July 2004, activities associated with preparation of Cell 18E for excavation activities were completed. This included the dewatering and installation of sumps and trenches in Cell 18E. During the first week in August, preparation of Cell 19E for excavation was completed. A temporary dam was built between Cell 18E and 19E to separate the excavation zones between the cells, to better facilitate dewatering activities and to ease the storm water management in the cells. Construction of a load out area on the Cell 18W riverbank was

completed. First, riverbank excavation activities were completed in Cells 18E and 19E. The excavated riverbank material from Cells 18E and 19E was placed into an Articulated Dump Truck (ADT) which transported and dumped the material into a roll-off box located in the river channel in Cell 18E. The material was then loaded into dump trucks by a long stick excavator located on the load out area on the riverbank of Cell 18W and hauled to the appropriate stockpile management area. The non-TSCA riverbank material pre-characterized for offsite disposal was transported to Area 64D; due to the large quantity of non-TSCA riverbank material pre-characterized for offsite disposal generated during the excavation of Cells 18E and 19E riverbanks, the Area 64D stockpile management area was filled to capacity. Therefore, the Cell 18E and 19E non-TSCA pre-characterized material was transported to the Area 64B stockpile management area. The non-TSCA riverbank material uncharacterized for off-site disposal was transported to Building 65 stockpile management area (then relocated to Area 64C on 8/12/04); and the TSCA riverbank material was transported to Area 64A stockpile management area. (See Table 1 for quantities of material generated in the month of August 2004 and Table 2 for quantities of material generated to date). With a flood warning forecasted for Berkshire County, erosion controls were installed on the lower sections of the excavated riverbanks. This consisted of covering the excavated riverbanks with reinforced poly and filter stone.

Once the riverbank excavation in Cell 18E and 19E was completed, the load out roll-off box was relocated to the Cell 20 river channel. Activities associated with preparation of a load out area on Parcel I7-21-3 (Cell 20W riverbank) were completed. The long stick excavator was relocated to the load out area on Parcel I7-21-3. The dewatering of Cells 18E and 19E was completed and the riverbed excavation of Cells 18E and 19E was initiated. First, the cobble material was excavated from Cell 18E and 19E river bottom. The excavated cobble material was placed into an ADT which transported and dumped the material into a roll-off box located in the river channel in Cell 20. The material was then loaded into dump trucks by a long stick excavator located on the load out area on Parcel I7-21-3 and hauled to Area 64E stockpile management area. During the excavation of the cobble material, NAPL was observed in both Cell 18E and 19E in the riverbed and at the toe of the riverbank. The NAPL material was left undisturbed during the removal of cobble and will be excavated once the cobble material is removed. The free flowing NAPL was controlled and removed with a vacuum truck and subsequently transferred to the water treatment system modutank.

Surveying activities continued in Cells 16 and 17. Final restoration verification surveying activities were initiated above the 1.5 year flood elevation in Cells 16E and 17E. The surveyors also monitored the excavation activities in Cells 18E and 19E to ensure appropriate design excavation depths were achieved. Once the riverbanks in Cell 18E and 19E were excavated, the final excavation survey was initiated on the riverbanks.

Other activities during the first week of August included the installation of a riprap swale on the riverbank in 17E. The swales were necessary to prevent riverbank erosion caused by storm water coming from High Street. A steel cap was installed on the NAPL interceptor system in the Cell 17E NAPL hole.

Work associated with removing tree and brush debris and cleaning up the riverbanks beyond the limit of excavation in Cells 16W and 17W was completed. The tree and brush debris was moved

to the staging area on the Lyman Street Parking lot. All the tree debris and brush chipping was completed.

During the second week in August, all backfilling below and above the 1.5 year flood elevation, which ranges between 969.5 feet to 970.5 feet of Cells 16E and 17E was completed in accordance with the backfill configurations described above.

Also during the second week of August, the riverbed excavation activities continued in Cell 18E and 19E. The excavation of NAPL-impacted material was completed in Cell 18E and the upstream end of Cell 19E. The NAPL-impacted material was encountered throughout Cell 18E riverbed and at the upstream end of Cell 19E riverbed. NAPL-impacted material was also encountered at the toe of the riverbank in the entire length of Cell 18E. The NAPL-impacted material extended about eight feet into the riverbank at the upstream end of the cell and tapered off gradually towards the downstream end of the cell ranging from one foot to three feet in depth. The Cell 18E and 19E NAPL-impacted material was transported to the Building 68 stockpile management area. In some areas in Cell 19E, the NAPL material overlapped into the TSCA areas. This material was excavated and transported to the Building 65 stockpile management area (then on 8/31/04 this material was relocated to Building 68 into a separate pile from the non-TSCA NAPL). All of the water and the free flowing NAPL from the excavation areas were diverted to the water treatment system.

Bedrock was encountered in the entire river bottom of Cell 18E and the upstream end of 19E. In addition to the standard excavation equipment, a small track excavator was used to access and remove the NAPL-impacted material and sediment from the areas of the river bottom where crevasses and depressions in the weathered bedrock were numerous. In most areas, there was less than 2-feet of sediment above the bedrock. Most of the bedrock within the riverbed in Cell 18E and upstream end of Cell 19E was stained with NAPL. The high pressure power washing of bedrock to remove any loose sediment and NAPL staining was initiated in Cell 18E and upstream end of Cell 19E. High pressure power washing of bedrock was supplemented with a vacuum truck to remove any residual sediment and NAPL from the bedrock. All water generated during the power washing was diverted to the water treatment system. All the residual sediment material was collected into roll-off boxes located in the riverbed and subsequently transferred to the water treatment system modutank.

The bedrock power washing and the vacuuming activities in Cell 18E and upstream end of Cell 19E had to stop on 8/12/03 due to heavy rains and heavy storm water discharge from the Elm Street storm water outfall that caused flooding in Cells 18E and 19E. Bin blocks were installed in the river bottom of Cell 14W at the Elm Street storm water outfall to protect the ACB from storm water erosion. Also, with the forecast of a tropical storm heading for the northeast for the weekend, additional erosion control measures were installed on the lower sections of the excavated river banks in Cells 18E and 19E. The riverbanks were covered with reinforced poly which was anchored down by sand bags at the top of the slope and riprap at the toe of the bank.

During the third week in August, Cells 18E and 19E were flooded from the weekend rain. On Monday, dewatering activities in Cell 18E and 19E were initiated. The river channel was dewatered by pumping the water down to six inches in depth downstream of the excavation areas. The water below six inches in depth was diverted to the water treatment system. Once the

dewatering was completed, the high pressure bedrock power washing and bedrock vacuuming was re-started. Since some of the bedrock in excavated areas in Cell 18E was not power washed before the flooding occurred and the flooding deposited a significant amount of material on the already washed bedrock, it was necessary to re-wash the entire riverbed of Cell 18E. All water generated during the power washing was diverted to the water treatment system. The residual sediment from the bedrock was removed by the vacuum truck. The more significant amounts of sediment were removed by the small track excavator. All the residual sediment material was collected into roll-off boxes located in the riverbed and subsequently transferred to the water treatment system modutank.

With the hurricane season under way it was decided that to minimize the potential for cross contamination and to advance the completion of Cell 18E, the riverbed was to be inspected and approved for backfilling as the power washing progressed downstream. Therefore the upstream sections of Cell 18E would be backfilled while the downstream portion of Cell 18E was power washed. As the riverbed power washing progressed downstream of Cell 18E, the excavation verification survey was completed, backfill grade stakes were installed and the riverbed and riverbank backfilling activities were initiated in the upstream end of Cell 18E. All visible NAPL was successfully removed from the riverbed and the riverbanks of Cell 18E. No NAPL containment measures were necessary in Cell 18E. A sacrificial layer of filter fabric and common fill were installed in the riverbed along the Cell 18E and Cell 18W border to create a barrier between the clean backfill that is to be installed and the contaminated sediment in Cell 18W.

Due to the presence of bedrock within the entire riverbed of Cell 18E, excavation depths varied. Therefore, various backfill configurations were developed to meet the design requirements. Twelve-inch riprap was placed in low lying areas and depressions in the bedrock to bring the excavated surface up to grade. Areas of the riverbed where the excavation depth was greater than 3 feet were backfilled with a layer of common fill, filter material, and 12-inch riprap. Areas of the riverbed where the excavation depth was less than 2.5 feet were backfilled with a layer of filter material and 12-inch riprap. Areas of the riverbed where bedrock was encountered at very shallow depths were either backfilled with filter material or were left with the bedrock exposed. The riverbank was backfilled with a six-inch layer of common fill, a six inch layer of filter material and a twenty four-inch layer of 18-inch riprap up to the 1.5 year flood elevation, which ranges between 969.5 feet to 970.5 feet. The riverbank above those elevations was backfilled with common fill and a six-inch layer of top soil.

Once riverbed power washing was completed in Cell 18E, power washing and vacuuming activities were initiated in the upstream end of Cell 19E. In addition, non-TSCA sediment material was excavated from low spots in the river bottom in Cell 19E. The excavated material was loaded into an ADT which transported and dumped the material into a roll-off box located in the river channel in Cell 20. The material was then loaded into dump trucks by a long stick excavator located on the load out area on Parcel I7-21-3 and hauled to Area 64C stockpile management area. As in Cell 18E, it was decided that the upstream sections of Cell 19E would be backfilled while the downstream portion of Cell 18E was power washed. Therefore as soon as a significant section of the riverbed was power washed, the excavation verification survey was completed. A protective filter fabric and common fill barrier was built between Cells 19E and

19W and riverbed backfill activities were initiated. Backfilling activities in Cell 19E was performed in accordance with the backfill configurations described above for Cell 18E.

Fusion welding of flange adapters onto the remaining two 300-foot sections of 54-inch HDPE river diversion pipe was completed. The two pipe pieces will eventually be connected to the two 2,750-foot pieces of pipe already in use. In the future the new two 300-foot pipe additions will extend the gravity bypass system beyond the Dawes Avenue Bridge and will allow the Phase 2 remediation work to extend down to the Dawes Avenue Bridge.

Other activities during the third week in August included power washing of the large boulders excavated from Cell 18E and 19E. The large boulders will be re-used as aquatic enhancement boulders in future riverbed restoration activities.

Due to heavy rains and high water flows on August 21, 2004 the stop logs were removed from the temporary dam to an elevation of 973 feet and the river channel downstream of the dam was flooded, subsequently flooding Cells 18 and 19. The next day the water levels started to recede and the stop logs were re-installed into the dam to elevation 978 and the dewatering pumps were started.

During the fourth week in August, the dewatering activities were completed in Cells 18E and 19E. A temporary sand bag dam was re-built at the downstream end of Cell 19E to aid with the dewatering process. Once dewatering was completed, Cell 19E bedrock power washing, vacuuming and removal of non-TSCA sediment from the low spots in the riverbed were completed. The excavated non-TSCA sediment material from low spots was transported to Area 64C stockpile management area. In two locations in the riverbed, a three-foot layer of sediment was excavated, but bedrock was not reached. However, a dense till material was encountered. EPA directed that three confirmation samples be collected from the dense till material and analyzed for PCBs. The PCB results were all less than the 1 ppm clean up goal for sediments. Therefore, the excavation in these two locations was terminated. One small area of the downstream part of Cell 19E river bottom adjacent to Cell 20E still required excavation. The non-TSCA cobble material from the area was excavated and transported to Area 64E stockpile management area. This completed the riverbed excavation in Cell 19E.

Survey activities in Cell 19E continued. The excavation verification survey was completed and the backfill grade stakes were installed. The riverbank excavation verification survey in Cell 19E revealed that additional riverbank soil needed to be excavated to meet the required design depth. Approximately 20cy of pre-characterized for offsite disposal riverbank soil was excavated and transported to the Area 64D stockpile management area. This completed the riverbank excavation activities in Cell 19E. All visible NAPL was successfully removed from the riverbed and the riverbanks of Cell 19E. No NAPL containment measures were necessary in Cell 19E.

River bottom backfill activities in Cell 19E were completed and the riverbank backfilling was initiated. The riverbed was backfilled in the following configurations: twelve inch riprap was placed in low lying areas and depressions in the bedrock to bring the excavated surface up to grade; areas of the riverbed where the excavation depth was greater than 3 feet were backfilled with a layer of common fill, filter material, and 12-inch riprap; which includes the areas that

were excavated to dense till and sampled for PCBs; areas of the riverbed where the excavation depth was less than 2.5 feet were backfilled with a layer of filter material and 12-inch riprap; areas of the riverbed where bedrock was encountered at very shallow depths were either backfilled with filter material or were left with the bedrock exposed. The riverbank was backfilled with a six-inch layer of common fill, a six inch layer of filter material and a twenty four-inch layer of 18-inch riprap up to the 1.5 year flood elevation, which ranges between 969.5 feet to 970.5 feet.

Also, during the fourth week in August, Cell 18E riverbank backfilling activities above the 1.5 year flood elevation continued. Common fill was installed in twelve inch horizontal lifts and compacted to meet the 95% compaction requirement. Then, a minimum six-inch layer of topsoil, erosion control blankets and herbaceous seed mix were installed. Silt fencing was installed along the top of the riverbank in Cell 18E as an erosion control measure. Once the silt fencing was installed all backfill activities in Cell 18E were concluded and the survey contractor completed the final restoration survey in Cell 18E. The riverbank above elevations the 1.5 year flood elevation in Cell 19E was backfilled with common fill. A portion of Cell 19E riverbank with slopes steeper than 2H:1V requires cellular geoweb for riverbank stability purposes. Therefore topsoil, erosion control blankets and herbaceous seed mix will be placed in Cell 19E once the geoweb is installed.

An application of herbicides to control the invasive plants in Phase 1, the Transition Phase and Phase 2 was performed. Also, the final coat of paving was installed on the parking lot of Parcel I8-23-6 in the area affected by the 24-inch storm water outfall repairs completed in April 2004.

During the last week in August activities associated with 54-inch HDPE pipe relocation were completed. All construction equipment and supplies were removed from the riverbed, stop logs were removed from the temporary dam and the river channel downstream of the temporary dam was flooded with enough water to float the pipe across the river channel. The two 54-inch HDPE pipes were relocated from the west side to the east side of the river channel. Once the relocation was completed the pipes were then reconnected to the pipe restraint system. The steel plate energy dissipater at the 54-inch pipe outfall located approximately one hundred feet upstream of the Dawes Avenue Bridge was relocated from the west side to the east side of the river channel. Additional bin blocks were placed at the toe of the riverbank on the east side of the river channel to protect the riverbank from erosion from the 54-inch pipe outfall.

Once the 54-inch pipe was relocated, dewatering activities in Cell 18W were completed, and excavation activities in Cell 18W were initiated. A majority of Cell 18W and all of Cell 19W lower riverbank was previously remediated by GE in mid 1990's. Part of the GE riverbank restoration included the installation of reno mattresses and gabion baskets. Coconut logs were installed above the gabion baskets. The reno mattresses at the base of the gabion wall were being undermined compromising the structural stability of the reno mattresses/gabion baskets and therefore the riverbank itself. It was unknown how riverbed excavation activities in Cells 18W and 19W adjacent to the gabion basket wall would affect the stability of the reno mattresses/gabion baskets. To ensure long-term stability of the riverbank EPA decided it was prudent to remove the reno mattresses, the gabion baskets and the coconut logs. In order to achieve the 1.5 Mile riverbank clean up levels, additional riverbank soil would have to be removed to allow for a placement of a three foot layer of backfill. The lower riverbank will be

backfilled with a six-inch layer of common fill, a six inch layer of filter material and a twenty four-inch layer of 18-inch riprap. EPA and GE agreed that to account for the disposal of the excavated reno mattresses, the gabion baskets and the coconut logs, EPA will be allotted an additional 750cy of space in GE OPCAs. The gabion basket rock was excavated and transported to Area 64B stockpile management area and the underlying riverbank material uncharacterized for offsite disposal was transported to Area 64C.

During the month of August, the water treatment system treated water from Cells 18 and 19. Sampling of the water treatment system for parameters included in the NPDES exclusion permit was performed on August 18, 2004. An additional two samples were collected from the water treatment system, one sample between the modutank and the oil/water separator and the other between the sand and carbon filter. Also, due to the presence of NAPL in Cells 18 and 19, the analytical parameters for the water treatment system sampling were expanded to include volatiles and semi-volatiles. Air monitoring for particulate matter (PM10 sampling) and surface water turbidity monitoring were performed on a daily basis during the month of August. Surface water sampling for total suspended solids (TSS) and PCBs was performed on August 04, 2004 and August 19, 2004. The monthly PCB air-monitoring event was performed on August 12, 2004. Three eight-point composite off-site disposal characterization samples were collected from NAPL-impacted material from Cells 18E and 19E (currently stockpiled in Building 68) on August 16, 2004. Since the NAPL-impacted material from Cell 19E that overlapped into the TSCA areas resulted with a non-TSCA PCB result post excavation, two more eight-point composite off-site disposal characterization samples were collected from the material on August 26, 2004 for PCB analysis only. Sampling of topsoil for chemical parameters was performed on August 11, 2004. Three PCB excavation confirmation samples were collected in the riverbed of Cell 19E on August 24, 2004.

Geotechnical samples were collected for 18-inch riprap and topsoil. The results of the geotechnical testing are not included in the monthly report but are contained in other submittals and are available upon request.

The transfer of non-TSCA cobble materials from the Area 64E stockpile management area to the Hill 78 OPCA was performed on August 11, 2004, August 12, 2004 and August 31, 2004. (See Table 3 for a summary of material transported to the OPCAs during the month of August 2004 and Table 4 for a summary of material transported to the OPCAs for the project through August 2004.)

Also, Cells 16 and 17 non-TSCA post excavation characterized riverbank and riverbed materials from the Area 64C stockpile management area; Cells 16 and 17 NAPL impacted non-TSCA post excavation characterized riverbank and riverbed materials from the Building 68, Building 63 and Building 65 stockpile management areas; and Cells 18 and 19 pre-characterized non-TSCA riverbank materials from Area 64D and Area 64B stockpile management areas were transported to the Waste Management of New Hampshire-TREE, Rochester, NH from August 04, 2004 to August 19, 2004. (See Table 5 for a summary of material transported to the Waste Management of New Hampshire-TREE, Rochester, NH during the month of August 2004.)

Stockpile management area activities continued throughout the month of August. Daily inspections, operation, and maintenance activities were performed within Buildings 63, 65, Area



64 (the outside stockpile area) and Building 68. Cleaning of the storm drain covers and replacement of fabric and hay bails around the storm drains within stockpile management areas on GE property was completed. A vacuum truck was utilized to collect the water runoff from the stockpiled material. The water was then transported to the water treatment system. Dust control procedures continued for access roads, parking areas, and material storage areas.

Traffic control was conducted on Lyman Street, High Street, Deming Street and Elm Street during the month of August.

### **3. Sampling/test results received**

Table 6 contains a summary of the PCB samples collected for the water treatment system sampling program on August 18, 2004, and the non-PCB data associated with the water treatment system sampling on August 18, 2004 is presented in Table 6a. The results of the daily particulate air monitoring program are summarized in Table 7. Table 8 is a summary of daily turbidity monitoring results. Results for PCB and TSS samples and water column monitoring data collected on July 22, 2004, August 04, 2004 and August 19, 2004 are presented in Table 9. Analytical results for the PCB air sampling conducted on August 12, 2004 are provided in Table 10. Table 11 presents common fill sample results collected on July 22, 2004 and topsoil sample results collected on August 11, 2004. Post-excavation characterization sample results for NAPL-impacted material (Building 68 stockpile management area) collected on August 16, 2004 and August 26, 2004 are summarized in Table 12. Table 13 presents PCB data associated with excavation confirmation samples collected in Cell 19E riverbed on August 24, 2004.

### **4. Diagrams associated with the tasks performed**

Figure 1 is a map of Phase 1, the Transition Phase and Phase 2 and includes the layout of all excavation cells, temporary dam, water monitoring locations, air sampling locations, access road locations, excavation load out locations, staging area locations, fence line location, the water treatment system pad location, and the utility trench location.

### **5. Reports received and prepared**

Vibration monitoring activities were not performed during the month of August.

## **6. Photo documentation of activities performed**

See attached photos.

## **7. Brief description of work to be performed in September 2004**

- Complete excavation activities in Cells 18W and 19W.
- Complete backfill activities in Cells 19E, 18W and 19W.
- Relocate and extend the 54-inch river diversion pipe below the Dawes Avenue Bridge.
- Initiate excavation activities in Cell 20E.
- Complete conditions and settlement monitoring activities on selected structures for Phase 3A.
- Continue stockpile management activities at Buildings 63, 65, 68 and Area 64 (outside contaminated material stockpile area).
- Continue transfer the non-TSCA materials from the stockpile management areas to approved off-site facilities.
- Continue to transfer TSCA and non-TSCA cobble material to the OPCAs.
- Continue daily air and turbidity monitoring.
- Continue PCB air sampling (once a month), water column sampling (twice a month), water treatment system sampling (once a month) and backfill material sampling (as needed).

## **8. Attachments to this report**

Table 1. Quantity of Bank and Sediment Material Excavated during the Month of August

Table 2. Quantity of Bank and Sediment Material Excavated to Date

Table 3. Quantity of Material Transferred to OPCAs during the Month of August

Table 4. Quantity of Material Transferred to OPCAs to Date

Table 5. Quantity of non-TSCA Material Transferred to Waste Management of New Hampshire TREE in Rochester, NH during the Month of August

Table 6. NPDES PCB Sampling Results for Water Treatment System

Table 6a. NPDES non- PCB Sampling Results for Water Treatment System

Table 7. Daily Air Monitoring Results

Table 8. Daily Water Column Turbidity Monitoring Results

Table 9. Summary of Turbidity, PCB, and TSS Water Column Monitoring Results

Table 10. PCB Air Sampling Results

Table 11. Backfill Material Testing Results

Table 12. Cell 18E/19E NAPL-Impacted Material Characterization Analytical Results

Table 13. Cell 19E Excavation Confirmation Analytical Results

Figure 1- 1.5 Mile Removal Action Site Map

Photodocumentation

**Table 1 - Quantity of Bank and Sediment Material Generated During the Month of August  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are reported in cubic yards)

		Approximate Quantity of Excavated Bank and Sediment Material		
Date	Location	non-TSCA	TSCA	NAPL impacted
<b>Bank Soil and Sediment</b>				
8/2/2004	Cell 18E&19E	400	40	0
8/3/2004	Cell 18E&19E	590	0	0
8/4/2004	Cell 18E&19E	200	0	0
8/5/2004	Cell 18E	190	0	0
8/6/2004	Cell 18E&19E	420	0	0
8/9/2004	Cell 18E&19E	0	0	500
8/12/2004	Cell 18E	0	0	60
8/18/2004	Cell 19E	40	0	0
8/24/2004	Cell 19E	70	0	0
8/26/2004	Cell 19E	120	0	0
8/30/2004	Cell 18W	10	0	0
8/31/2004	Cell 18W	170	0	0
	<b>Monthly total from bank soil and sediment</b>	<b>2,210</b>	<b>40</b>	<b>560</b>

Note:

All quantities are in compacted or "in-place" cubic yards. All loads are estimated at 10cy per truck.

**Table 2 - Quantity of Bank and Sediment Material Excavated to Date  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are reported in cubic yards)

		Approximate Quantity of Bank and Sediment Material Excavated to Date			
Date	Location	non-TSCA	TSCA	NAPL impacted	Total
09/26/02 to 10/02/02	Cell 1A	101	0	53	154
10/02/02 to 10/04/02	Cell 1B	60	0	110	170
10/18/02 to 10/29/02	Cell 2	874	175	0	1,049
11/11/02 to 11/15/02	Cell 3	183	0	200	383
11/18/02 to 11/25/02	Cell 4	2,283	198	0	2,481
12/03/02 to 12/10/02	Cell 5	1,629	369	0	1,998
01/07/03 to 01/15/03	Cell 6	832	658	0	1,490
01/10/03 to 01/29/03	Cell 6A	2,611	68	0	2,679
02/03/03 to 02/10/03	Cell 7&7A	1,114	636	0	1,750
02/20/03 to 02/24/03	Cell 5A	899	0	0	899
02/25/03 to 03/07/03	Cell 8&8A	1,245	90	0	1,335
03/14/03 to 03/18/03	Cell 9	603	307	0	910
03/27/03 to 04/07/03	Cell 10&10A	1,730	133	0	1,863
04/14/03 to 04/16/03	Cell 12	668	1,354	0	2,022
04/30/03 to 05/09/03	Cell 11	1,713	341	10	2,064
05/27/03 to 06/12/03	Cell 11A	957	166	462	1,585
06/25/03 to 07/18/03	Cell 12A	1,656	805	656	3,117
09/04/03 to 10/22/03	Cell 13	3,580	298	1,129	5,007
01/08/04 to 03/24/04	Cell 14&15	4,462	288	257	5,007
5/25/04 to 07/30/04	Cell 16&17	4,392	820	3,191	8,403
8/02/04 to 08/31/05	Cell 18E,19E&18W *	2,210	40	560	2,810
	<b>Total</b>	<b>33,802</b>	<b>6,746</b>	<b>6,628</b>	<b>47,176</b>

Note:

All quantities determined by pre- and post- excavation surveying.

\* Cell 18E,19E&18W Quantities estimated based on truck counts at 10cy/truck

**Table 3 - Quantity of Material Transferred to OPCAs During the Month of August  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are reported in cubic yards)

		Approximate Quantity Transported to OPCAs	
Date	# of truckloads	Hill 78 (non-TSCA)	Bldg. 71 (TSCA)
<b>Bank Soil and Sediment</b>			
8/11/2004	41	451	0
8/12/2004	10	110	0
8/31/2004	44	484	0
<b>Monthly totals</b>	<b>95</b>	<b>1,045</b>	<b>0</b>

Note:

All quantities are in compacted or "in-place" cubic yards.

(1) Estimated at 11 cy per truck

**Table 4 - Quantity of Material Transferred to OPCAs to Date  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are reported in cubic yards)

		Approximate Quantity Transported to OPCAs	
Date	Location	Hill 78 (non-TSCA)	Bldg. 71 (TSCA)
<b>Site Preparation Activities</b>			
09/11/02	Building 65 Stockpile Management Area	225	
<b>Bank Soil and Sediment</b>			
12/05/02 to 12/19/02	Stockpile Management Area/Excavation Cells	4,718 (1)	910 (1)
02/11/03 to 02/28/03	Stockpile Management Area/Excavation Cells	5,137 (2)	539 (2)
03/03/03 to 03/14/03	Stockpile Management Area/Excavation Cells	1,749 (2)	1,353 (2)
04/07/03 to 04/18/03	Stockpile Management Area/Excavation Cells	2,710 (3)	1,698 (3)
04/07/03 to 04/18/03	Stockpile Management Area/Cleanup Material	370 (3)	40 (3)
05/12/03 to 05/14/03	Stockpile Management Area/Excavation Cells	1,826 (3)	0
05/12/03 to 05/14/03	Stockpile Management Area/Cleanup Material	220 (3)	0
06/11/03 to 06/12/03	Stockpile Management Area/Excavation Cells	0	704 (3)
06/16/03 to 06/17/03	Stockpile Management Area/Excavation Cells	712 (3)	0
06/16/03 to 06/17/03	Stockpile Management Area/Cleanup Material	146 (3)	0
07/07/03 to 07/11/03	Stockpile Management Area/Excavation Cells	1,188 (3)	748 (3)
09/15/03 to 09/30/03	Stockpile Management Area/Excavation Cells	2,090 (3)	308 (3)
10/28/03 to 10/30/03	Stockpile Management Area/Excavation Cells	1,623 (3)	33 (3)
10/28/03 to 10/30/03	Stockpile Management Area/Cleanup Material	181 (3)	0
11/18/03	Demolition Debris from Parcels I8-10-2 and I8-10-3	200 (4)	0
1/12/04	Stockpile Management Area/Excavation Cells	77 (3)	0
04/28/04 to 4/30/04	Stockpile Management Area	0	825 (3)
05/12/04 to 05/27/04	Stockpile Management Area/Excavation Cells/Outfall Repair on Parcel I8-23-6	1,518 (3)	484 (3)
06/03/04 to 06/22/04	Stockpile Management Area	0	528 (3)
07/06/04 to 07/16/05	Stockpile Management Area	396 (3)	836 (3)
08/11/04 to 08/31/04	Stockpile Management Area	1,045 (3)	0
<b>Project Totals</b>		<b>26,131</b>	<b>9,006</b>

Pursuant to the Consent Decree, EPA is allowed to dispose of up to 50,00cy of material into GE OPCAs. Pursuant to August 2004 agreement between EPA and GE, EPA is allowed to dispose an additional 750cy of material into the GE OPCAs to account for a portion of the volume of material generated as part of the removal of the gabion baskets and reno mattresses along Deming Street.

**Notes:**

All quantities are in compacted or "in-place" cubic yards.

- (1) Estimated at 14cy per truck, loaded with excavator.
- (2) Estimated at 11cy per truck due to loading out frozen material.
- (3) Estimated at 11cy per truck, loaded with front end loader.
- (4) Estimated at 8cy per truck

**Table 5 - Quantity of non-TSCA Material Transported to Waste Management of New Hampshire-  
TREE, Rochester, N.H.  
During the Month of August  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

**(Results are reported in tons)**

<b>Date Shipped</b>	<b>Doc. Number</b>	<b>Stockpile Area</b>	<b>Net Weight (Tons) (1)</b>
08/04/04	0401WMNH	Cell 16/17 Area 64C	31.55
08/04/04	0402WMNH	Cell 16/17 Area 64C	31.43
08/04/04	0403WMNH	Cell 16/17 Area 64C	25.71
08/04/04	0404WMNH	Cell 16/17 Area 64C	28.94
08/04/04	0405WMNH	Cell 16/17 Area 64C	31.77
08/04/04	0406WMNH	Cell 16/17 Area 64C	31.00
08/04/04	0407WMNH	Cell 16/17 Area 64C	31.19
08/04/04	0408WMNH	Cell 16/17 Area 64C	31.72
08/04/04	0409WMNH	Cell 16/17 Area 64C	33.85
08/04/04	0410WMNH	Cell 16/17 Area 64C	27.78
08/04/04	0411WMNH	Cell 16/17 Area 64C	33.03
08/04/04	0412WMNH	Cell 16/17 Area 64C	33.66
08/04/04	0413WMNH	Cell 16/17 Area 64C	32.35
08/04/04	0414WMNH	Cell 16/17 Area 64C	31.43
08/04/04	0415WMNH	Cell 16/17 Area 64C	35.11
08/04/04	0416WMNH	Cell 16/17 Area 64C	32.30
08/05/04	0417WMNH	Cell 16/17 NAPL Building 65	28.30
08/05/04	0418WMNH	Cell 16/17 NAPL Building 65	27.55
08/05/04	0419WMNH	Cell 16/17 NAPL Building 65	31.62
08/05/04	0420WMNH	Cell 16/17 NAPL Building 65	31.30
08/05/04	0421WMNH	Cell 16/17 NAPL Building 65	31.08
08/05/04	0422WMNH	Cell 16/17 NAPL Building 65	31.81
08/05/04	0423WMNH	Cell 16/17 NAPL Building 65	31.80
08/05/04	0424WMNH	Cell 16/17 NAPL Building 65	32.12
08/05/04	0425WMNH	Cell 16/17 NAPL Building 65	31.61
08/05/04	0426WMNH	Cell 16/17 NAPL Building 65	33.04
08/05/04	0427WMNH	Cell 16/17 NAPL Building 65	32.62
08/05/04	0428WMNH	Cell 16/17 NAPL Building 65	32.38
08/05/04	0429WMNH	Cell 16/17 NAPL Building 65	31.47
08/05/04	0430WMNH	Cell 16/17 NAPL Building 65	31.62
08/05/04	0431WMNH	Cell 16/17 NAPL Building 65	32.57
08/06/04	0432WMNH	Cell 16/17 NAPL Building 65	31.10
08/06/04	0433WMNH	Cell 16/17 NAPL Building 65	29.36
08/06/04	0434WMNH	Cell 16/17 NAPL Building 65	29.10
08/06/04	0435WMNH	Building 65 / Area 64C	28.80



Date Shipped	Doc. Number	Stockpile Area	Net Weight (Tons) (1)
08/06/04	0436WMNH	Cell 16/17 Area 64C	30.96
08/06/04	0437WMNH	Cell 16/17 Area 64C	31.57
08/06/04	0438WMNH	Cell 16/17 Area 64C	29.02
08/06/04	0439WMNH	Cell 16/17 Area 64C	29.53
08/06/04	0440WMNH	Cell 16/17 Area 64C	31.66
08/06/04	0441WMNH	Cell 16/17 Area 64C	32.54
08/06/04	0442WMNH	Cell 16/17 Area 64C	30.64
08/06/04	0443WMNH	Cell 16/17 Area 64C	29.44
08/06/04	0444WMNH	Cell 16/17 Area 64C	30.35
08/06/04	0445WMNH	Cell 16/17 Area 64C	30.28
08/06/04	0446WMNH	Cell 16/17 Area 64C	27.91
08/09/04	0447WMNH	Cell 16/17 NAPL Building 68	30.75
08/09/04	0448WMNH	Cell 16/17 NAPL Building 68	30.15
08/09/04	0449WMNH	Cell 16/17 NAPL Building 68	30.65
08/09/04	0450WMNH	Cell 16/17 NAPL Building 68	31.74
08/09/04	0451WMNH	Cell 16/17 NAPL Building 68	31.73
08/09/04	0452WMNH	Cell 16/17 NAPL Building 68	32.35
08/09/04	0453WMNH	Cell 16/17 NAPL Building 68	34.38
08/09/04	0454WMNH	Cell 16/17 Area 64C	31.91
08/09/04	0455WMNH	Cell 16/17 Area 64C	34.73
08/09/04	0456WMNH	Cell 16/17 Area 64C	35.11
08/09/04	0457WMNH	Cell 16/17 Area 64C	31.63
08/09/04	0458WMNH	Cell 16/17 Area 64C	29.77
08/09/04	0459WMNH	Cell 16/17 Area 64C	34.45
08/09/04	0460WMNH	Cell 16/17 Area 64C	32.51
08/09/04	0461WMNH	Cell 16/17 Area 64C	31.79
08/09/04	0462WMNH	Cell 16/17 Area 64C	32.02
08/09/04	0463WMNH	Cell 16/17 Area 64C	32.35
08/09/04	0464WMNH	Cell 16/17 Area 64C	30.67
08/09/04	0465WMNH	Area 64C/D	30.70
08/09/04	0466WMNH	Cell 18&19 Pretest Area 64D	34.69
08/09/04	0467WMNH	Cell 18&19 Pretest Area 64D	33.70
08/10/04	0468WMNH	Cell 18&19 Pretest Area 64D	28.99
08/10/04	0469WMNH	Cell 18&19 Pretest Area 64D	32.64
08/10/04	0470WMNH	Cell 18&19 Pretest Area 64D	32.95
08/10/04	0471WMNH	Cell 18&19 Pretest Area 64D	31.55
08/10/04	0472WMNH	Cell 18&19 Pretest Area 64D	28.39
08/10/04	0473WMNH	Cell 18&19 Pretest Area 64D	34.06
08/10/04	0474WMNH	Cell 18&19 Pretest Area 64D	22.11
08/10/04	0475WMNH	Cell 18&19 Pretest Area 64D	32.07
08/10/04	0476WMNH	Cell 18&19 Pretest Area 64D	31.74
08/10/04	0477WMNH	Cell 18&19 Pretest Area 64D	32.71
08/10/04	0478WMNH	Cell 18&19 Pretest Area 64D	30.89
08/10/04	0479WMNH	Cell 18&19 Pretest Area 64D	33.87
08/10/04	0480WMNH	Cell 18&19 Pretest Area 64D	30.10

Date Shipped	Doc. Number	Stockpile Area	Net Weight (Tons) (1)
08/10/04	0481WMNH	Cell 18&19 Pretest Area 64D	31.26
08/10/04	0482WMNH	Cell 18&19 Pretest Area 64D	31.36
08/10/04	0483WMNH	Cell 18&19 Pretest Area 64D	31.10
08/10/04	0484WMNH	Cell 18&19 Pretest Area 64D	30.96
08/10/04	0485WMNH	Cell 18&19 Pretest Area 64D	33.19
08/10/04	0486WMNH	Cell 18&19 Pretest Area 64D	30.85
08/10/04	0487WMNH	Cell 18&19 Pretest Area 64D	31.95
08/10/04	0488WMNH	Cell 18&19 Pretest Area 64D	30.32
08/10/04	0489WMNH	Cell 18&19 Pretest Area 64D	33.96
08/10/04	0490WMNH	Cell 18&19 Pretest Area 64D	35.60
08/11/04	0491WMNH	Cell 18&19 Pretest Area 64D	32.48
08/11/04	0492WMNH	Cell 18&19 Pretest Area 64D	32.02
08/11/04	0493WMNH	Cell 18&19 Pretest Area 64D	31.60
08/11/04	0494WMNH	Cell 18&19 Pretest Area 64D	30.58
08/11/04	0495WMNH	Cell 18&19 Pretest Area 64D	30.14
08/11/04	0496WMNH	Cell 18&19 Pretest Area 64D	31.04
08/11/04	0497WMNH	Cell 18&19 Pretest Area 64D	31.86
08/11/04	0498WMNH	Cell 18&19 Pretest Area 64D	31.09
08/11/04	0499WMNH	Cell 18&19 Pretest Area 64D	29.70
08/11/04	0500WMNH	Cell 18&19 Pretest Area 64D	30.46
08/11/04	0501WMNH	Cell 18&19 Pretest Area 64D	30.62
08/11/04	0502WMNH	Cell 18&19 Pretest Area 64D	32.14
08/11/04	0503WMNH	Cell 18&19 Pretest Area 64D	32.81
08/11/04	0504WMNH	Cell 18&19 Pretest Area 64D	31.32
08/11/04	0505WMNH	Cell 18&19 Pretest Area 64D	32.61
08/11/04	0506WMNH	Cell 18&19 Pretest Area 64D	27.50
08/11/04	0507WMNH	Cell 18&19 Pretest Area 64D	31.59
08/11/04	0508WMNH	Cell 18&19 Pretest Area 64D	32.59
08/11/04	0509WMNH	Cell 18&19 Pretest Area 64D	32.65
08/11/04	0510WMNH	Cell 18&19 Pretest Area 64D	31.10
08/11/04	0511WMNH	Cell 18&19 Pretest Area 64D	33.07
08/11/04	0512WMNH	Cell 18&19 Pretest Area 64D	30.17
08/11/04	0513WMNH	Cell 18&19 Pretest Area 64D	35.23
08/12/04	0514WMNH	Cell 18&19 Pretest Area 64D	30.82
08/12/04	0515WMNH	Cell 18&19 Pretest Area 64D	32.31
08/12/04	0516WMNH	Cell 18&19 Pretest Area 64D	33.82
08/12/04	0517WMNH	Cell 18&19 Pretest Area 64B	29.76
08/12/04	0518WMNH	Cell 18&19 Pretest Area 64B	30.30
08/12/04	0519WMNH	Cell 18&19 Pretest Area 64B	31.22
08/12/04	0520WMNH	Cell 18&19 Pretest Area 64B	32.53
08/12/04	0521WMNH	Cell 18&19 Pretest Area 64B	31.45
08/12/04	0522WMNH	Cell 18&19 Pretest Area 64B	31.51
08/12/04	0523WMNH	Cell 18&19 Pretest Area 64B	31.10
08/12/04	0524WMNH	Cell 18&19 Pretest Area 64B	29.33
08/13/04	0525WMNH	Cell 18&19 Pretest Area 64B	33.44

Date Shipped	Doc. Number	Stockpile Area	Net Weight (Tons) (1)
08/13/04	0526WMNH	Cell 18&19 Pretest Area 64B	31.16
08/13/04	0527WMNH	Cell 18&19 Pretest Area 64B	29.33
08/13/04	0528WMNH	Cell 18&19 Pretest Area 64B	31.37
08/13/04	0529WMNH	Cell 18&19 Pretest Area 64B	30.85
08/13/04	0530WMNH	Cell 18&19 Pretest Area 64B	26.45
08/13/04	0531WMNH	Cell 18&19 Pretest Area 64B	27.36
08/13/04	0532WMNH	Cell 18&19 Pretest Area 64B	28.29
08/13/04	0533WMNH	Cell 18&19 Pretest Area 64B	28.84
08/13/04	0534WMNH	Cell 18&19 Pretest Area 64B	29.84
08/13/04	0535WMNH	Cell 18&19 Pretest Area 64B	28.64
08/13/04	0536WMNH	Cell 18&19 Pretest Area 64B	30.99
08/13/04	0537WMNH	Cell 18&19 Pretest Area 64B	30.99
08/13/04	0538WMNH	Cell 18&19 Pretest Area 64B	28.83
08/13/04	0539WMNH	Cell 18&19 Pretest Area 64B	31.61
08/13/04	0540WMNH	Cell 18&19 Pretest Area 64B	25.60
08/13/04	0541WMNH	Cell 18&19 Pretest Area 64B	26.66
08/13/04	0542WMNH	Cell 18&19 Pretest Area 64B	30.41
08/13/04	0543WMNH	Cell 18&19 Pretest Area 64B	32.57
08/13/04	0544WMNH	Cell 16/17 NAPL Building 63	27.98
08/13/04	0545WMNH	Cell 16/17 NAPL Building 63	32.53
08/13/04	0546WMNH	Cell 16/17 NAPL Building 63	30.03
08/16/04	0547WMNH	Cell 16/17 NAPL Building 63	32.56
08/16/04	0548WMNH	Cell 16/17 NAPL Building 63	29.47
08/16/04	0549WMNH	Cell 16/17 NAPL Building 63	30.16
08/16/04	0550WMNH	Cell 16/17 NAPL Building 63	30.28
08/16/04	0551WMNH	Cell 16/17 NAPL Building 63	26.87
08/16/04	0552WMNH	Cell 16/17 NAPL Building 63	30.63
08/16/04	0553WMNH	Cell 16/17 NAPL Building 63	29.14
08/16/04	0554WMNH	Cell 16/17 NAPL Building 63	30.87
08/16/04	0555WMNH	Cell 16/17 NAPL Building 63	33.01
08/16/04	0556WMNH	Cell 16/17 NAPL Building 63	30.57
08/16/04	0557WMNH	Cell 16/17 NAPL Building 63	32.38
08/16/04	0558WMNH	Cell 16/17 NAPL Building 63	32.28
08/16/04	0559WMNH	Cell 16/17 NAPL Building 63	30.36
08/16/04	0560WMNH	Cell 16/17 NAPL Building 63	29.59
08/16/04	0561WMNH	Cell 16/17 NAPL Building 63	32.08
08/16/04	0562WMNH	Cell 16/17 NAPL Building 63	29.75
08/16/04	0563WMNH	Cell 16/17 NAPL Building 63	29.59
08/17/04	0564WMNH	Cell 16/17 NAPL Building 63	28.92
08/17/04	0565WMNH	Cell 16/17 NAPL Building 63	29.82
08/17/04	0566WMNH	Cell 16/17 NAPL Building 63	31.84
08/17/04	0567WMNH	Cell 16/17 NAPL Building 63	33.63
08/17/04	0568WMNH	Cell 16/17 NAPL Building 63	32.60
08/17/04	0569WMNH	Cell 16/17 NAPL Building 63	30.68
08/17/04	0570WMNH	Cell 16/17 NAPL Building 63	34.46

Date Shipped	Doc. Number	Stockpile Area	Net Weight (Tons) (1)
08/17/04	0571WMNH	Cell 16/17 NAPL Building 63	30.97
08/17/04	0572WMNH	Cell 16/17 NAPL Building 63	32.57
08/17/04	0573WMNH	Cell 16/17 NAPL Building 63	31.17
08/18/04	0574MWNH	Cell 16/17 NAPL Building 63	33.31
08/18/04	0575MWNH	Cell 16/17 NAPL Building 63	31.99
08/18/04	0576MWNH	Cell 16/17 NAPL Building 63	32.76
08/19/04	0577WMNH	Cell 16/17 NAPL Building 63	32.60
08/19/04	0578WMNH	Cell 16/17 NAPL Building 63	34.07
08/19/04	0579WMNH	Cell 16/17 NAPL Building 63	31.49
<b>Total of Material Disposed</b>			<b>5,581.13</b>

Notes:

(1) Net weights established at the disposal facility

**Table 6- NPDES Sampling Results for Water Treatment System  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per billion, ppb)

Sample ID	Location	Date Collected	Aroclor 1016, 1221, 1232, & 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	Total PCBs Filtered
H2-WW000001-0-4G18	Influent	18-Aug-04	ND(0.013)	ND(0.013)	0.049	0.088	0.14	ND(0.013)
H2-WW000004-0-4G18	Modutank Effluent	18-Aug-04	ND(0.027)	ND(0.027)	0.11	0.22	0.33	ND(0.013)
H2-WW000005-0-4G18	Sand Filter Effluent	18-Aug-04	ND(0.067)	ND(0.067)	0.46	0.19	0.65	0.026
H2-WW000002-0-4G18	Intermediate	18-Aug-04	ND(0.013)	ND(0.013)	0.074	0.10	0.17	NS
H2-WW000003-0-4G18	Effluent	18-Aug-04	ND(0.013)	ND(0.013)	0.029	0.056	0.085	NS
<b>Action Level</b>	<b>Effluent</b>		<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	<b>0.50</b>	N/A

Notes:

ND(0.013) - Analyte was not detected. The value in parentheses is the associated detection limit.

Modutank Effluent- Sample collected between the modutank and the oil/water separator.

Sand Filter Effluent - Sample collected between the sand and carbon filter.

Intermediate - Sample collected between carbon units which are being operated in series.

NS - Not Sampled

N/A - Not Available

**Table 6a - NPDES non-PCB Sampling Results for Water Treatment System  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per billion, ppb)

Sample ID	H2-WW000001-0-4G18	H2-WW000004-0-4G18	H2-WW000005-0-4G18	H2-WW000002-0-4G18	H2-WW000003-0-4G18	NPDES Permit
Sample type	Influent	Modutank Effluent	Sand Filter Effluent	Intermediate	Effluent	Regulatory
Date Collected	08/18/2004	08/18/2004	08/18/2004	08/18/2004	08/18/2004	Effluent Limits
Analyte						
<b>APP IX SEMIVOLATILES</b>						
ACENAPHTHENE	66.0	27.0	7.6 J	ND	ND	100
ACENAPHTHYLENE	2.3 J	0.96 J	ND	ND	ND	100
ANTHRACENE	6.5 J	2.4 J	ND	ND	ND	100
BENZO(A)ANTHRACENE	1.3 J	1.1 J	ND	ND	ND	100
BENZO(A)PYRENE	0.69 J	0.69 J	ND	ND	ND	100
BENZO(B)FLUORANTHENE	0.65 J	0.76 J	ND	ND	ND	100
CHRYSENE	1.3 J	1.3 J	ND	ND	ND	100
DI-N-BUTYL PHTHALATE	0.51 J	ND	ND	ND	ND	100
FLUORANTHENE	9.0 J	7.7 J	ND	ND	ND	100
FLUORENE	7.4 J	2.2 J	ND	ND	ND	100
PYRENE	13.0	7.7 J	ND	ND	ND	100
<b>APP IX VOLATILES</b>						
1,2,4-TRICHLOROBENZENE	0.47 J	0.30 J	ND	ND	ND	70
ACETONE	5.0	4.6 J	3.7 J	2.3 J	ND	100
CARBON TETRACHLORIDE	ND	ND	ND	0.34 J	ND	N/A
CHLOROFORM	ND	ND	ND	0.69 J	0.30 J	100
CHLOROMETHANE	ND	ND	0.25 J	ND	ND	N/A
CIS-1,2-DICHLOROETHENE	ND	ND	ND	0.39 J	ND	N/A
ETHYL BENZENE	1.0	0.46 J	ND	ND	ND	N/A
M,P-XYLENE (SUM OF ISOMERS)	1.6	0.84 J	0.29 J	ND	ND	*
NAPHTHALENE	1.5	0.68 J	0.24 J	ND	ND	100
O-XYLENE	1.1	0.59 J	0.18 J	ND	ND	*
TERT-BUTYL METHYL ETHER	0.30 J	0.30 J	0.30 J	4.4	7.2	70
TOLUENE	0.40 J	0.24 J	ND	ND	ND	*
XYLENES (TOTAL)	2.8	1.5	0.48 J	ND	ND	*

Notes:

Modutank Effluent- Sample collected between the modutank and the oil/water separator.  
Sand Filter Effluent - Sample collected between the sand and carbon filter.  
Intermediate - Sample collected between carbon units which are being operated in series.  
Only detected constituents are summarized  
ND - not detected  
J - Indicates an estimated value  
\* Total BTEX (Benzene, Toluene, Ethyl Benzene and Xylene) can not exceed 100 ppb  
N/A - not available

**Table 7 - Daily Air Monitoring Results  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

<b>Date Collected</b>	<b>Sample Location</b>	<b>Average Site Concentration (mg/m<sup>3</sup>)</b>	<b>Average Period (Hours:Min)</b>
8/2/2004	Upwind	0.120	5
	Downwind	--	--
	Background	0.006	5
8/3/2004	Upwind	0.122	8
	Downwind	0.036	1
	Background	0.017	7
8/4/2004	Upwind	0.013	8
	Downwind	0.017	8
	Background	0.002	8
8/5/2004	Upwind	0.065	3
	Downwind	0.019	3
	Background	0.000	3
8/6/2004	Upwind	0.018	19
	Downwind	0.014	18
	Background	0.004	14
8/9/2004	Upwind	0.041	6
	Downwind	0.024	6
	Background	0.003	6
8/10/2004	Upwind	0.049	9
	Downwind	0.019	9
	Background	0.016	9
8/11/2004	Upwind	0.073	4
	Downwind	0.092	7
	Background	0.088	7
8/12/2004	Upwind	NA	NA
	Downwind	NA	NA
	Background	NA	NA
8/13/2004	Upwind	NA	NA
	Downwind	NA	NA
	Background	NA	NA
8/16/2004	Upwind	NA	NA
	Downwind	NA	NA
	Background	NA	NA
8/17/2004	Upwind	0.013	5
	Downwind	0.028	6
	Background	--	--
8/18/2004	Upwind	0.058	4
	Downwind	0.137	4
	Background	0.065	4

Date Collected	Sample Location	Average Site Concentration (mg/m <sup>3</sup> )	Average Period (Hours:Min)
8/19/2004	Upwind	NA	NA
	Downwind	NA	NA
	Background	NA	NA
8/20/2004	Upwind	0.041	6
	Downwind	0.087	6
	Background	0.042	6
8/23/2004	Upwind	0.011	7
	Downwind	0.045	7
	Background	0.003	7
8/24/2004	Upwind	0.038	8
	Downwind	0.002	9
	Background	0.000	8
8/25/2004	Upwind	0.012	5
	Downwind	0.051	6
	Background	0.006	10
8/26/2004	Upwind	0.008	7
	Downwind	0.044	7
	Background	0.004	6
8/27/2004	Upwind	0.038	5
	Downwind	0.075	4
	Background	0.040	5
7/29/2004	Upwind	NA	NA
	Downwind	NA	NA
	Background	NA	NA
7/30/2004	Upwind	NA	NA
	Downwind	NA	NA
	Background	NA	NA
notification level		0.120	
action level		0.150	

Notes:

N/A - Not available due to precipitation

--- - No reading due to technical difficulties with monitoring equipment

Shaded areas indicate readings above the notification level. Engineering controls to reduce the particulates included washing and additional watering of the access roads.



**Table 8 - Daily Water Column Turbidity Monitoring Results  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

Date	Flow at Coltsville (cfs)	Location	Turbidity (ntu)			Temperature Average (°C)
			Average	High	Low	
8/1/2004	34	Downstream of Lyman Street Bridge	15.1	40.6	8.0	22.05
		Downstream of Pomeroy Avenue Bridge	4.0	9.6	1.0	22.04
8/2/2004	46	Downstream of Lyman Street Bridge	9.7	13.6	6.0	22.43
		Downstream of Pomeroy Avenue Bridge	88.1	802.3	1.9	22.13
8/3/2004	33	Downstream of Lyman Street Bridge	3.4	5.8	2.0	22.49
		Downstream of Pomeroy Avenue Bridge	4.4	9.2	3.2	20.98
8/4/2004	37	Downstream of Lyman Street Bridge	8.1	16.1	4.9	22.70
		Downstream of Pomeroy Avenue Bridge	5.3	18.3	2.4	22.64
8/5/2004	65	Downstream of Lyman Street Bridge	21.8	54.2	7.9	21.23
		Downstream of Pomeroy Avenue Bridge	7.7	20.9	2.7	21.29
8/6/2004	56	Downstream of Lyman Street Bridge	36.6	92.6	11.7	19.30
		Downstream of Pomeroy Avenue Bridge	4.9	8.8	2.1	19.27
8/7/2004	36	Downstream of Lyman Street Bridge	73.2	167.4	19.1	17.79
		Downstream of Pomeroy Avenue Bridge	6.8	15.3	1.9	17.91
8/8/2004	31	Downstream of Lyman Street Bridge	341.0	1237.0	25.5	17.45
		Downstream of Pomeroy Avenue Bridge	4.1	9.0	2.6	17.47
8/9/2004	27	Downstream of Lyman Street Bridge	N/A	N/A	N/A	17.91
		Downstream of Pomeroy Avenue Bridge	2.3	8.6	0.2	18.06
8/10/2004	26	Downstream of Lyman Street Bridge	N/A	N/A	N/A	17.91
		Downstream of Pomeroy Avenue Bridge	2.9	6.7	0.4	19.29
8/11/2004	26	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
8/12/2004	29	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	3.5	11.7	1.4	20.56
8/13/2004	45	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	14.2	44.4	3.1	20.11
8/14/2004	69	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	9.6	20.8	4.2	20.05
8/15/2004	52	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	4.1	6.6	2.5	19.85
8/16/2004	53	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	7.3	11.5	4.6	19.14
8/17/2004	71	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	5.4	9.6	2.8	18.38
8/18/2004	51	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	5.0	7.6	2.8	18.93
8/19/2004	39	Downstream of Lyman Street Bridge	2.7	3.0	2.3	20.36
		Downstream of Pomeroy Avenue Bridge	3.9	7.2	2.6	19.79
8/20/2004	33	Downstream of Lyman Street Bridge	20.5	194.2	2.5	20.79
		Downstream of Pomeroy Avenue Bridge	11.4	39.8	3.0	20.64

Date	Flow at Coltsville (cfs)	Location	Turbidity (ntu)			Temperature Average (°C)
			Average	High	Low	
8/21/2004	324	Downstream of Lyman Street Bridge	24.3	46.7	12.0	20.13
		Downstream of Pomeroy Avenue Bridge	58.6	380.9	12.6	20.42
8/22/2004	247	Downstream of Lyman Street Bridge	11.6	17.3	7.6	18.38
		Downstream of Pomeroy Avenue Bridge	29.0	35.3	22.9	18.35
8/23/2004	133	Downstream of Lyman Street Bridge	2.7	3.5	2.1	18.19
		Downstream of Pomeroy Avenue Bridge	19.1	21.1	17.2	18.28
8/24/2004	82	Downstream of Lyman Street Bridge	3.6	5.9	2.8	19.59
		Downstream of Pomeroy Avenue Bridge	18.3	20.5	15.8	19.33
8/25/2004	52	Downstream of Lyman Street Bridge	4.6	14.2	1.7	18.73
		Downstream of Pomeroy Avenue Bridge	20.2	21.7	18.9	18.46
8/26/2004	41	Downstream of Lyman Street Bridge	3.6	5.7	2.4	18.82
		Downstream of Pomeroy Avenue Bridge	10.0	13.2	8.6	18.61
8/27/2004	35	Downstream of Lyman Street Bridge	3.4	5.3	2.3	18.85
		Downstream of Pomeroy Avenue Bridge	7.7	24.4	3.6	19.44
8/28/2004	32	Downstream of Lyman Street Bridge	4.9	8.3	2.7	21.02
		Downstream of Pomeroy Avenue Bridge	5.5	7.1	4.0	20.72
8/29/2004	32	Downstream of Lyman Street Bridge	5.1	9.0	2.6	22.17
		Downstream of Pomeroy Avenue Bridge	9.3	13.6	6.8	21.98
8/30/2004	31	Downstream of Lyman Street Bridge	3.5	7.6	1.4	21.29
		Downstream of Pomeroy Avenue Bridge	60.8	138.1	8.6	23.10
8/31/2004	48	Downstream of Lyman Street Bridge	5.5	7.8	2.9	21.88
		Downstream of Pomeroy Avenue Bridge	42.1	254.9	3.4	21.89

Notes:

**Turbidity Action Level - Average Downstream (Pomeroy Avenue)  $\geq$  Average Downstream (Lyman Street) + 50 ntu**

cfs - Cubic feet per second

ntu - nephelometric turbidity units

Measurements collected using YSI 6200 Data Acquisition System using 600 OMS

sonde with a 6136 Turbidity Probe

Flow data was obtained from the USGS Station 01197000 in Coltsville, MA at approximately midday.

Negative values are attributed to +/- 2ntu accuracy of the turbidity probe.

The Lyman Street Turbidity probe will be removed for cleaning and calibration 8/9 through 8/18.

Exceedence on 8/02 is caused by one high reading of 802.3ntu which happened at 6am, construction activities start at 7am therefore the high reading could not have been caused by construction activities. The turbidity average for 8/02 without the 802.3 reading is 31.16ntu.

Exceedence on 8/30 due to False readings. The probe was out of the water while both pipes were closed to facilitate pipe relocation.

Data for Pomeroy Avenue location is missing on 8/11 due to an unexplained technical error.

**Table 9 - Summary of Turbidity, PCB, and TSS Water Column Monitoring Results  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

Location	Date	Estimated Flow (cfs)	Turbidity (ntu)			Water Temp. (°C)	Calculated Flow Beginning (cfs)	Calculated Flow End (cfs)	Sample ID	Total PCB Concentration (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
			High	Low	Daily Average							
Upstream of Newell St. Bridge	07/22/04	45	NS	NS	NS	NS	NS	NS	H0-SW000054-0-4L22	ND(0.013)	ND(0.013)	6.7
Downstream of Lyman St. Bridge	07/22/04	45	18.4	6.1	9.1	18.50	NS	NS	H2-SW000055-0-4L22	0.031	ND(0.013)	5.0
Downstream of Pomeroy Ave. Bridge	07/22/04	45	6.0	2.0	3.0	22.15	36.0	44.4	H2-SW000052-0-4L22	0.096	ND(0.013)	5.1
Upstream of Newell St. Bridge	08/04/04	37	NS	NS	NS	NS	NS	NS	H0-SW000054-0-4G04	NS	NS	NS
Downstream of Lyman St. Bridge	08/04/04	37	16.1	4.9	8.1	22.70	NS	NS	H2-SW000055-0-4G04	0.038	0.013	6.6
Downstream of Pomeroy Ave. Bridge	08/04/04	37	18.3	2.4	5.3	22.64	48.1	64.4	H2-SW000052-0-4G04	0.088	0.019	8.8
Downstream of Pomeroy Ave. Bridge (duplicate)	08/04/04	37	18.3	2.4	5.3	22.64	48.1	64.4	H2-SW000052-1-4G04	NS	0.019	NS
Upstream of Newell St. Bridge	08/19/04	39	NS	NS	NS	NS	NS	NS	H0-SW000054-0-4G19	ND(0.013)	ND(0.013)	5.4
Downstream of Lyman St. Bridge	08/19/04	39	3.0	2.3	2.7	20.36	NS	NS	H2-SW000055-0-4G19	ND(0.013)	ND(0.013)	4.3
Downstream of Pomeroy Ave. Bridge	08/19/04	39	7.2	2.6	3.9	19.79	51.7	50.8	H2-SW000052-0-4G19	0.039	ND(0.013)	7.1

Notes:  
**PCB Action Level - Downstream (Pomeroy Avenue)  $\geq$  Downstream (Lyman Street) + 5 ug/L**  
 ND(0.013) - Analyte was not detected. The value in parentheses is the associated detection limit.  
 cfs - Cubic feet per second  
 ntu - nephelometric turbidity units  
 NS - Not Sampled  
 Temperature measured YSI 600 oms system.  
 Flow data was obtained from the USGS Station 01197000 in Coltsville, MA at approximately midday.  
 Water column samples were collected as 4 grab composite samples.  
 Two flow values calculated, one at the beginning of the sampling event and one at the end of sampling event.

**Table 10 - PCB Air Sampling Results  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in  $\mu\text{g}/\text{m}^3$ )

Sample ID	Location (1)	Date Collected	Aroclor 1016, & 1242	Aroclor 1221, 1232, & 1248	Aroclor 1254	Aroclor 1260	Total PCBs
H2-AR000007-0-4G12	background	12-Aug-04	ND(0.00261)	ND(0.00261)	<b>0.00365</b>	ND(0.00261)	<b>0.00365</b>
H2-AR000028-0-4G12	AR000028	12-Aug-04	ND(0.00260)	ND(0.00260)	ND(0.00260)	ND(0.00260)	ND(0.00260)
H2-AR000032-0-4G12	AR000032	12-Aug-04	ND(0.00297)	ND(0.00297)	ND(0.00297)	ND(0.00297)	ND(0.00297)
H2-AR000032-1-4G12 (duplicate)	AR000032	12-Aug-04	ND(0.00287)	ND(0.00287)	ND(0.00287)	ND(0.00287)	ND(0.00287)
H2-AR000037-0-4G12	AR000037	12-Aug-04	ND(0.00286)	ND(0.00286)	ND(0.00286)	ND(0.00286)	ND(0.00286)
H2-AR000038-0-4G12	AR000038	12-Aug-04	ND(0.00272)	ND(0.00272)	<b>0.00272</b>	ND(0.00272)	<b>0.00272</b>

Notes:

**Notification Level:  $0.05\mu\text{g}/\text{m}^3$**

**Action Level:  $0.1\mu\text{g}/\text{m}^3$**

1- See Figure 1 for locations

**Table 11 - Backfill Material Testing Results  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000056-0-4L22-1	H2-OT000056-0-4L22-2	H2-OT000056-0-4L22-3	H2-OT000056-0-4L22-4	H2-OT000056-0-4L22-5	Regulatory Limits (1)
Sample type	Common Fill	Common Fill	Common Fill	Common Fill	Common Fill	
Date Collected	07/22/2004	07/22/2004	07/22/2004	07/22/2004	07/22/2004	
Analyte						
<b>APP IX SEMIVOLATILES</b>						
PYRENE	---	---	---	---	---	<b>700</b>
<b>APP IX VOLATILES</b>						
1,3-DICHLOROBENZENE	---	---	---	---	---	<b>100</b>
2-BUTANONE	---	---	---	---	---	<b>0.3</b>
ACETONE	---	---	---	---	---	<b>3</b>
ACROLEIN	---	---	---	---	---	<b>10</b>
BROMOMETHANE	---	---	---	---	---	<b>3</b>
CARBON DISULFIDE	---	---	---	---	---	<b>100</b>
DIBROMOMETHANE	---	---	---	---	---	<b>500</b>
ETHYL BENZENE	---	---	---	---	---	<b>80</b>
M,P-XYLENE (SUM OF ISOMERS)	---	---	---	---	---	<b>500</b>
NAPHTHALENE	---	---	---	---	---	<b>4</b>
O-XYLENE	---	---	---	---	---	<b>500</b>
TETRACHLOROETHYLENE(PCE)	---	---	---	---	---	<b>0.5</b>
TOLUENE	---	---	---	---	---	<b>90</b>
TRICHLOROETHYLENE (TCE)	---	---	---	---	---	<b>0.4</b>
XYLENES (TOTAL)	---	---	---	---	---	<b>500</b>
<b>METALS</b>						
ANTIMONY	---	---	---	---	---	<b>10</b>
ARSENIC	---	---	---	---	---	<b>30</b>
BARIUM	---	---	---	---	---	<b>1000</b>
BERYLLIUM	---	---	---	---	---	<b>0.7</b>
CADMIUM	---	---	---	---	---	<b>30</b>
CHROMIUM	---	---	---	---	---	<b>1000</b>
COBALT	---	---	---	---	---	<b>500</b>
COPPER	---	---	---	---	---	<b>1000</b>
LEAD	---	---	---	---	---	<b>300</b>
MERCURY	---	---	---	---	---	<b>20</b>
NICKEL	---	---	---	---	---	<b>300</b>
SELENIUM	---	---	---	---	---	<b>400</b>
TIN	---	---	---	---	---	<b>10</b>
VANADIUM	---	---	---	---	---	<b>400</b>

Sample ID	H2-OT000056-0-4L22-1	H2-OT000056-0-4L22-2	H2-OT000056-0-4L22-3	H2-OT000056-0-4L22-4	H2-OT000056-0-4L22-5	Regulatory Limits (1)
Sample type	Common Fill	Common Fill	Common Fill	Common Fill	Common Fill	
Date Collected	07/22/2004	07/22/2004	07/22/2004	07/22/2004	07/22/2004	
Analyte						
ZINC	---	---	---	---	---	2500
PCBS						
PCB, TOTAL	ND	ND	ND	ND	ND	0.1*
ORGANIC						
PETROLEUM HYDROCARBON	43.2	33.9	34.3	36.5	34.7	200*

Notes:

Only detected constituents are summarized

ND - not detected

--- not sampled

(1) - Massachusetts contingency plan S-1 limits

\* - Project specific acceptable levels for backfill

**Table 11 - Backfill Material Testing Results  
August 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action  
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000056-0-4L22-6	H2-OT000165-0-4G11-1	H2-OT000165-0-4G11-2	H2-OT000165-0-4G11-3	H2-OT000165-0-4G11-4	Regulatory Limits (1)
Sample type	07/22/2004	08/11/2004	08/11/2004	08/11/2004	08/11/2004	
Date Collected	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	
Analyte						
<b>APP IX SEMIVOLATILES</b>						
PYRENE	ND	.026 J	---	---	---	700
<b>APP IX VOLATILES</b>						
1,3-DICHLOROBENZENE	.00097 J	ND	---	---	---	100
2-BUTANONE	.0096	.0056 J	---	---	---	0.3
ACETONE	.082	.051	---	---	---	3
ACROLEIN	ND	.0047 J	---	---	---	10
BROMOMETHANE	.0012 J	ND	---	---	---	3
CARBON DISULFIDE	.00099 J	ND	---	---	---	100
DIBROMOMETHANE	.0018 J	ND	---	---	---	500
ETHYL BENZENE	.00095 J	ND	---	---	---	80
M,P-XYLENE (SUM OF ISOMERS)	.0024 J	ND	---	---	---	500
NAPHTHALENE	.0044 J	ND	---	---	---	4
O-XYLENE	.0014 J	ND	---	---	---	500
TETRACHLOROETHYLENE(PCE)	.0047 J	ND	---	---	---	0.5
TOLUENE	.0065	.0015 J	---	---	---	90
TRICHLOROETHYLENE (TCE)	.003 J	ND	---	---	---	0.4
XYLENES (TOTAL)	.0038 J	ND	---	---	---	500
<b>METALS</b>						
ANTIMONY	0.41	0.85	---	---	---	10
ARSENIC	2.7	5.1	---	---	---	30
BARIUM	12.4	35.7	---	---	---	1000
BERYLLIUM	0.22	0.35	---	---	---	0.7
CADMIUM	0.20	0.40	---	---	---	30
CHROMIUM	3.5	9.3	---	---	---	1000
COBALT	4.0	7.3	---	---	---	500
COPPER	7.2	12.6	---	---	---	1000
LEAD	3.7	12.8	---	---	---	300
MERCURY	ND	0.057	---	---	---	20
NICKEL	7.1	12.1	---	---	---	300
SELENIUM	ND	1.1	---	---	---	400
TIN	ND	1.0	---	---	---	10
VANADIUM	4.2	11.3	---	---	---	400

Sample ID	H2-OT000056-0-4L22-6	H2-OT000165-0-4G11-1	H2-OT000165-0-4G11-2	H2-OT000165-0-4G11-3	H2-OT000165-0-4G11-4	Regulatory Limits (1)
Sample type	07/22/2004	08/11/2004	08/11/2004	08/11/2004	08/11/2004	
Date Collected	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	
Analyte						
ZINC	25.9	56.8	---	---	---	2500
PCBS						
PCB, TOTAL	ND	ND	ND	ND	ND	0.1*
ORGANIC						
PETROLEUM HYDROCARBON	30.1	92.2	53.6	48.2	90.1	200*

Notes:

Only detected constituents are summarized

ND - not detected

--- not sampled

(1) - Massachusetts contingency plan S-1 limits

\* - Project specific acceptable levels for backfill



**Table 12 - Cell 18E/19E NAPL-Impacted Material Characterization Analytical Results**  
**August 2004 Monthly Report**  
**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action**  
**Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000166-0-4G16	H2-OT000167-0-4G16	H2-OT000168-0-4G16	H2-OT000172-0-4G26A	H2-OT000172-0-4G26B
Sample type	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization
Date Collected	08/16/2004	08/16/2004	08/16/2004	08/26/2004	08/26/2004
Stockpile Location	Building 68	Building 68	Building 68	Building 68	Building 68
<b>Analyte</b>					
PCB, TOTAL	12	2.5	5	5.2	4.1
AROCOR-1254	2.9	.73	1.7	1.2	0.68
AROCOR-1260	8.6	1.8	3.3	4.0	3.4
<b>APP IX SEMIVOLATILES</b>					
2-METHYLNAPHTHALENE	74	220	51	---	---
4-METHYLPHENOL	.48 J	1.4 J	ND	---	---
ACENAPHTHENE	52	220	78	---	---
ACENAPHTHYLENE	24	11	3.6 J	---	---
ACETOPHENONE	.25 J	ND	ND	---	---
ANTHRACENE	62	190	51	---	---
BENZO(A)ANTHRACENE	46	120	36	---	---
BENZO(A)PYRENE	37	97	29	---	---
BENZO(B)FLUORANTHENE	27	53 J	21	---	---
BENZO(GH)PERYLENE	12 J	35 J	11 J	---	---
BENZO(K)FLUORANTHENE	31	76 J	21	---	---
CHRYSENE	41	110	32	---	---
DIBENZO(A,H)ANTHRACENE	5.1 J	12 J	3.7 J	---	---
DIBENZOFURAN	25 J	52 J	9.4 J	---	---
FLUORANTHENE	94	270	72	---	---
FLUORENE	55	140	40	---	---
INDENO(1,2,3-C,D)PYRENE	13 J	36 J	9.7 J	---	---
NAPHTHALENE	72	400	45	---	---
PHENANTHRENE	180	520	140	---	---
PYRENE (mg/kg)	100	280	95	---	---
<b>APP IX VOLATILES</b>					
1,2,4-TRICHLOROBENZENE	ND	9 J	ND	---	---
1,4-DIOXANE (P-DIOXANE)	ND	3300	ND	---	---
ACETONE	ND	ND	5.7	---	---
ETHYL BENZENE	ND	48	4.9	---	---
M,P-XYLENE (SUM OF ISOMERS)	.68 J	37	3.4	---	---
NAPHTHALENE	80	700	98	---	---
O-XYLENE	ND	15 J	2 J	---	---
XYLENES (TOTAL)	.7 J	54	5.5	---	---
<b>INORGANICS</b>					
CORROSIVITY BY PH (ph)	7.8	7.4	7.6	---	---
IGNITABILITY (deg f)	>150	>150	>150	---	---
PAINT FILTER LIQUIDS (ml)	ABSENT	ABSENT	ABSENT	---	---

Sample ID	H2-OT000166-0-4G16	H2-OT000167-0-4G16	H2-OT000168-0-4G16	H2-OT000172-0-4G26A	H2-OT000172-0-4G26B
Sample type	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization
Date Collected	08/16/2004	08/16/2004	08/16/2004	08/26/2004	08/26/2004
Stockpile Location	Building 68	Building 68	Building 68	Building 68	Building 68
<b>Analyte</b>					
PERCENT SOLIDS (%)	81.3	75.7	80.8	85.6	83.2
SULFIDE (mg/kg)	ND	ND	ND	---	---
CYANIDE (mg/kg)	ND	0.75	ND	---	---
<b>TCLP HERBICIDES</b>					
	all Non-Detects	all Non-Detects	all Non-Detects	---	---
<b>TCLP METALS</b>					
ARSENIC, TCLP LEACHATE (mg/l)	ND	.0037	ND	---	---
BARIUM, TCLP LEACHATE (mg/l)	.448	.693	.473	---	---
CADMIUM, TCLP LEACHATE (mg/l)	.00077	.0033	ND	---	---
CHROMIUM, TCLP LEACHATE (mg/l)	.0024	.0059	.0015	---	---
LEAD, TCLP (mg/l)	.0376	.152	.0093	---	---
SELENIUM, TCLP LEACHATE (mg/l)	.0139	.0121	.0086		
<b>TCLP PESTICIDES</b>					
	all Non-Detects	all Non-Detects	all Non-Detects	---	---
<b>TCLP SEMIVOLATILES</b>					
	all Non-Detects	all Non-Detects	all Non-Detects	---	---
<b>TCLP VOLATILES</b>					
	all Non-Detects	all Non-Detects	all Non-Detects	---	---

Notes:

Only detected constituents are summarized

ND - not detected

--- - not sampled

**Table 13 - Cell 19E, Excavation Confirmation Samples Analytical Results**  
**August 2004 Monthly Report**  
**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action**  
**Pittsfield, MA**

(Results are presented in part per million, ppm)

<b>Sample ID</b>	H2-OT000169-0-4G24	H2-OT000170-0-4G24	H2-OT000171-0-4G24
<b>Sample type</b>	Cell 19E sediment	Cell 19E sediment	Cell 19E sediment
<b>Date Collected</b>	08/24/2004	08/24/2004	08/24/2004
<b>Analyte</b>			
<b>PCBS</b>			
AROCLOR-1254	0.16	ND	ND
AROCLOR-1260	0.77	ND	ND
PCB, TOTAL	0.93	ND	ND
<b>INORGANICS</b>			
PERCENT SOLIDS (%)	86.3	86.1	86.2

Notes:

Only detected constituents are summarized

ND - not detected



**Photograph 1 – Cell 18E, Excavation Activities**



**Photograph 2 – High Pressure Washing/Vacuuming of Bedrock in Cell 18E**





**Photograph 3– Installation of Common Fill in Cell 18E**



**Photograph 4– Installation of Filter Stone in Cell 18E**



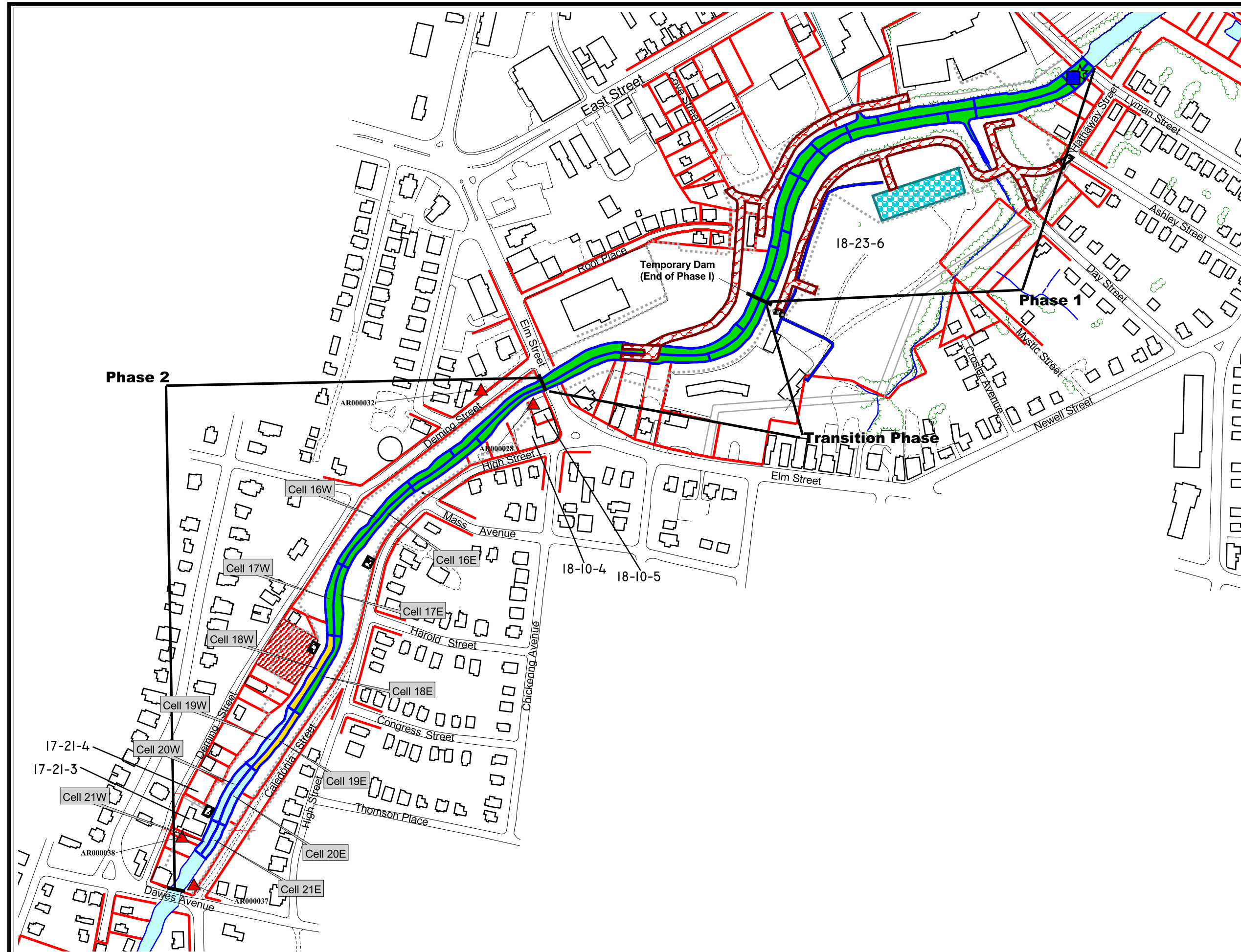


**Photograph 5– Cell 18E Restored**



**Photograph 6 - Gabion Basket Removal in Cell 18W**





# LEGEND

- Roads
- Surface Water
- Water Treatment Plant\*
- Access Roads
- Asphalt Access Road
- Property Lines
- Loadout Area
- Deming Street Staging/Loadout Area
- Fence line\*
- Work Completed
- Work In Progress
- Work Pending
- Turbidity Monitoring Locations
- Air Sampling Locations
- Water Monitoring Locations
- Buried Electric/Telephone Line\*

\*Note: As-built features were located using a real time GPS unit



Scale in Feet



**Figure 1**  
**1.5 Mile Removal Action**  
**Site Map**  
**August 2004 Monthly Report**